

Recopy for J. Hintz, J. Burroughs, P. Tandler

CERRO COPPER PRODUCTS CO.

A member of The Marmon Group of companies

INTERNAL MEMORANDUM

OTHER ADDRESSEES - FOR INFORMATION

P. Tandler 153716
J. Grana
R. E. Conreaux
C. Schafer
File

HQ-10 SHOW NAME, TITLE AND UNIT OF ADDRESSEE AND ADDRESSOR

TO: Jim Hintz

FROM: Joe Burroughs

SUBJECT: WASTEWATER DISCHARGE - EAST LIFT STATION

DATE: June 5, 1989

As previously discussed, we have been unable to obtain a satisfactory measurement of the Cerro wastewater discharge from the east lift station to the Village sewer system. An accurate determination of this discharge is necessary to calculate our mass discharge of contaminants for compliance determinations and for accurate billings for our treatment costs.

The existing pumping system at the lift station appears to handle any flow that can be delivered by our sewer, but does not appear to provide a means of accurately measuring the flow. The polysonic unit, although calibrated to an NBS traceable standard before installation, appears to be in error due to the location of the transducers, the operation of the system, and vibration from the pump operation.

It is requested that a new primary pumping system that will provide for a flow through a flume which can be accurately measured be designed and installed and the present system used for stormwater flows or infrequent momentary periods. It appears that a dual pump system with a capacity of 400 gpm would be adequate and the inclusion of variable frequency drive controls would increase the accuracy level for the flume arrangement. This accuracy will be further enhanced by use of an ultrasonic unit to determine the flow across the flume. Variable frequency drive control will allow reduction of the pumping rate during low flow periods to minimize abrupt changes in flow and resultant periods of inaccuracy.

JDB/ge

Joe
6/6/89

Joe Burroughs + Jim Hintz

Lets discuss at your convenience.

Joe

C03727